



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 : G01N 33/574, C07K 16/30, C12Q 1/68, G01N 33/561	A1	(11) International Publication Number: WO 00/55628 (43) International Publication Date: 21 September 2000 (21.09.00)
(21) International Application Number: PCT/GB00/00908 (22) International Filing Date: 13 March 2000 (13.03.00)		(74) Agents: CHAPMAN, Paul, William et al.; Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ (GB).
(30) Priority Data: 9905817.4 12 March 1999 (12.03.99) GB		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BI, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
(71) Applicant (for all designated States except US): OXFORD GLYCOSCIENCES (UK) LTD. [GB/GB]; 10 The Quadrant, Abingdon Science Park, Abingdon, Oxfordshire OX14 3YS (GB).		
(72) Inventors; and		
(75) Inventors/Applicants (for US only): AMESS, Bob [GB/GB]; Oxford GlycoSciences Ltd., 10 The Quadrant, Abingdon Science Park, Abingdon, Oxfordshire OX14 3YS (GB). TOWNSEND, Robert, Reid [GB/GB]; Oxford Glyco- Sciences Ltd., 10 The Quadrant, Abingdon Science Park, Abingdon, Oxfordshire OX14 3YS (GB). PAREKH, Rajesh Bhikhu [GB/GB]; Oxford GlycoSciences Ltd., 10 The Quadrant, Abingdon Science Park, Abingdon, Oxford- shire OX14 3YS (GB). WATERFIELD, Michael, Derek [GB/GB]; Ludwig Institute for Cancer Research, 91 Riding House Street, London W1P 8BT (GB). O'HARE, Michael, John [GB/GB]; Ludwig Institute For Cancer Research, 91 Riding House Street, London W1P 8BT (GB).		Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i>
(54) Title: PROTEINS FOR DIAGNOSIS AND TREATMENT OF BREAST CANCER		
(57) Abstract		
<p>The present invention provides methods and compositions for screening, diagnosis and prognosis of breast cancer, for monitoring the effectiveness of breast cancer treatment, and for drug development. Breast Cancer-Associated Features (BFs), detectable by two-dimensional electrophoresis of breast tissue are described. The invention further provides Breast Cancer-Associated Protein Isoforms (BPIs) detectable in breast tissue, preparations comprising isolated BPIs, antibodies immunospecific for BPIs, and kits comprising the aforesaid.</p>		